## **CLAIM AMENDMENTS**

This listing of claims will replace all prior versions, and listings, of claims in the application:

- 1. (Original) A method comprising the steps of:
- receiving a first data stream of multimedia data, wherein the multimedia data includes a first protocol and further wherein the first protocol is unknown;
- determining, based upon a first portion of the first data stream, the first protocol of the multimedia data.
- 2. (Currently Amended) The method as in Claim 1, wherein the first protocol is one of a set of predefined protocols comprising Motion Picture Experts Group 2 (MPEG-2), Direct TVDIRECTV®, and Digital Versatile Disk (DVD) protocols.
  - 3. (Original) The method as in Claim 1, further comprising: storing a second portion of the first data stream in memory after the step of determining the first protocol.
- 4. (Original) The method as in Claim 3, wherein the second portion of the first data stream is received after the first portion of the first data stream.
- 5. (Original) The method as in Claim 3, wherein the second portion of the first data stream includes the first portion of the first data stream.
- 6. (Original) The method as in Claim 3, further comprising generating a database based on the second portion.
- 7. (Original) The method as in Claim 6, further comprising parsing the second portion of the first data stream to determine a first set of descriptors associated with the first data stream.

Page 3 of 12 U.S. App. No.: 10/660,438

- 8. (Currently Amended) The method as in Claim 7, wherein the first set of descriptors includes a descriptor selected from the group consisting of from the set of descriptors comprising a network identifier, multiplex information, and program information.
- 9. (Original) The method as in Claim 8, wherein multiplex information includes transport stream identifiers and program identifiers.
- 10. (Original) The method as in Claim 8, wherein the program information includes program numbers, program recovery clock identifiers, video data identifiers and audio data identifiers.
- 11. (Original) The method as in Claim 8, wherein the set of descriptors further includes elementary stream information and closed captioning information.
- 12. (Original) The method as in Claim 11, wherein the elementary stream information includes data stream types and elementary stream identifiers.
- 13. (Currently Amended) The method as in Claim [[1]]3, wherein the memory includes a frame buffer.
  - 14. (Original) The method as in Claim 1, further comprising:
  - receiving a second data stream of multimedia data, different from the first data stream, wherein the multimedia data of the second data stream includes a second protocol, different from the first protocol and further wherein the second protocol is unknown;
  - determining, based upon a first portion of the second data stream, the second protocol of the multimedia data of the second data stream.
  - 15. (Cancelled)
  - 16. (Cancelled)

17. (Cancelled)			
18. (Cancelled)			
19. (Cancelled)			
20. (Cancelled)			
21. (Cancelled)			
22. (Cancelled).			
23. (Cancelled)			
24. (Cancelled)			
25. (Cancelled)			
26. (Cancelled)			
27. (Cancelled)			
28. (Cancelled)			
29. (Cancelled)			
30. (Cancelled)			
31. (Cancelled)			
32. (Cancelled)			
33 (Cancelled)			

34. (Cancelled)
35. (Cancelled)
36. (Cancelled)
37. (Cancelled)
38. (Cancelled)
39. (Cancelled)
40. (Cancelled)
41. (Cancelled)
42. (Cancelled)
43. (Cancelled)
44. (Cancelled)
45. (Cancelled)
46. (New) A device comprising,
a transport stream demultiplexor comprising:
an input configured to receive multimedia data, wherein the multimedia data
includes a first protocol and further wherein the first protocol is unknown;
a microcode engine configured to determine, based upon a first portion of the first

data stream, the first protocol of the multimedia data.

- 47. (New) The device of claim 46, wherein the device further comprises a memory configured to store a second portion of the first data stream after the microcode engine determines the first protocol.
- 48. (New) The device of Claim 47, wherein the second portion of the first data stream is received at the input after the first portion of the first data stream.
- 49. (New) The device of Claim 47, wherein the second portion of the first data stream includes the first portion of the first data stream.
- 50. (New) The device of Claim 47, wherein the device further comprises a stream engine coupled to an output of the transport stream demultiplexor, the stream engine configured to generate a database based on the second portion of the first data stream.
- 51. (New) The device of Claim 50, wherein the stream engine is further configured to parse the second portion of the first data stream to determine a first set of descriptors associated with the first data stream.
- 52. (New) The device of Claim 51, wherein the first set of descriptors includes a descriptor selected from the group consisting of a network identifier, multiplex information, and program information.
- 53. (New) The device of Claim 52, wherein multiplex information includes transport stream identifiers and program identifiers.
- 54. (New) The device of Claim 52, wherein the program information includes program numbers, program recovery clock identifiers, video data identifiers and audio data identifiers.
- 55. (New) The device of Claim 52, wherein the set of descriptors further includes elementary stream information and closed captioning information.

Page 7 of 12 U.S. App. No.: 10/660,438

- 56. (New) The device of Claim 55, wherein the elementary stream information includes data stream types and elementary stream identifiers.
  - 57. (New) The device of Claim 47, wherein the memory includes a frame buffer.
- 58. (New) The device of claim 46, wherein the input is configured to receive a second data stream of multimedia data, different from the first data stream, wherein the multimedia data of the second data stream includes a second protocol, different from the first protocol and further wherein the second protocol is unknown, and wherein the microcode engine is configured to determine, based upon a first portion of the second data stream, the second protocol of the multimedia data of the second data stream.

Page 8 of 12 U.S. App. No.: 10/660,438